

# JAMIE ROSE KLEINER

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## Education

### The George Washington University

2018

*Summa cum laude, cumulative GPA 3.81*

- Bachelor of Arts in Psychology with concentration in Cognitive Neuroscience: *GPA 3.85, Special Honors in Major*
- Bachelor of Arts in Political Science: *GPA 3.73, Special Honors in Major*
- Minors in Mind-Brain Studies and Theatre: *GPA 3.97 and 3.9*
- Relevant coursework:
  - PSYC 8289 *Seminar: Topics in Experimental Psychology*: Graduate level course taught by Dr. Sarah Shomstein covering topics in cognitive neuroscience related to visuospatial attention, hemi-spatial neglect, visual categorization, etc.
  - PSYC 8289 *Seminar: Topics in Experimental Psychology*: Graduate level course taught by Dr. Dwight Kravitz applying python coding, statistics and data analysis to neuroscientific works. Differentiating between engineering and neuroscience experiments.
  - PSYC 4107W *Advanced Neuroscience Lab*: Capstone course focused on various topics in cognitive neuroscience. Examined previous research, designed and carried out research projects, and wrote research reports as a form of critical inquiry and scholarly expression.
  - PSYC: 3122 *Cognitive Neuroscience*: Discussed how the structure and functions of the brain are related to cognitive processes and their associated behaviors. Covered research and case studies by cognitive psychologists, neuroscientists, psychiatrists, and linguists, focusing on how the brain affects pattern recognition, attention, short-term and long-term memory processes, and language.
  - PSYC 3124 *Visual Perception*: Overview of human perception, ranging from the detection of simple stimuli to the identification of objects and events; perceptions of color, motion, and spatial layout. Reviewed research methodology, biological foundations, and theoretical issues.
  - BISC 1112 *Biology of Organisms (for pre-med, pre-doctoral or engineering students)*: Covered biological systems of vertebrate and invertebrate animals including apes and humans. Lab work was customized and focused on the human nervous system.
  - STAT 1053 *Statistics*: Covered topics in statistical significance, hypothesis and population testing (T-testing and Z-testing), ANOVA, linear regression, logistic regression.
  - PSYC 2102 *Research Methods in Experimental Psychology*: Covered topics of research design (case studies, correlational designs, experiments), methods and measurement issues.
  - PHIL 3153 *Mind, Brain and Artificial Intelligence*: Investigation of mind from perspectives in neuroscience, cognitive psychology and artificial intelligence. Topics included consciousness in humans, creating consciousness and animal minds.
  - PSYC 2014 *Cognitive Psychology*: Covered the study of cognition in reviewing data and theories of perception, attention, memory, language, reasoning and decision-making.
  - PHIL 1153 *The Meaning of Mind*: Covered central questions, assumptions and hypotheses about the human mind. Topics included the nature of thought, consciousness, and self; knowledge of other minds, implications of the sciences of the mind for free will, and the mind-brain relationship.
  - SPHR 1000 *Dean's Seminar Evolution of the Human Mind*: Covered evolution of the brain physiology along with human behavior such as tool making, play, art, hunting and gathering techniques and social evolution.
- Registered coursework to be taken at University of Pennsylvania, Spring 2022:
  - MATH 312 *Linear Algebra*: Linear transformations, Gauss Jordan elimination, eigenvalues and eigenvectors, theory and applications.
- Relevant Online Coursework:
  - Courses in *Python, Intro to SQL, Intro to AWS*, [www.Cybrary.it](http://www.Cybrary.it). 2019, online coursework.
  - Courses in *Data Scientist Career Paths*, [www.codeacademy.com](http://www.codeacademy.com). 2020, online coursework.
  - Courses in R, [www.codeacademy.com](http://www.codeacademy.com). 2021, online coursework.
- Courses in *Acting for TV /Film, The Art of Voiceover & Film /TV Intensive*, Actors Connection. 2020, New York, NY.

## Research / Work Experience

Wharton Neuroscience Initiative, Perelman School of Medicine, University of Pennsylvania

Philadelphia, PA

*Research Specialist*

05/2021 – present

- Under the supervision of Dr. Michael Platt, Dr Elizabeth Johnson and Dr. Joseph Kable I am working directly with external partners to aid in configuration of gamified behavioral tasks.
- Independently wrote IRB protocol #849669 which is approved through Penn. Managing aspects of amendment writing and adherence to self-designed normative data collection currently being performed to validate projects run with external partners.
- Performing factor analyses to extract relevant behavioral and survey data to serve as predictive measures of performance in applicants' training for cyber positions in the Department of Defense.
- Working with Dr. Joseph Kable and Josh Gold to explore pupillometry and EEG as a possible measure of rate of learning.
- Working with Dr. Jeremy Clifton to analyze categorizations between individuals' Primals and agency within decision-making tasks.

- Aided in designing WiN client's deliverable report card of research participants utilizing data visualization and UX design.
- Presented detailed research design, hypothesis, and anticipated analysis of rate of learning study at Platt Labs round table.
- Headed offsite study collaboration with the University of Chicago focusing on cognitive correlates to morbid curiosity. Analysis consists of EEG and heart rate data collected as participants ventured through a famous haunted house in Detroit, Michigan.
- Conducting data collection and research design for collaborative study with Children's Hospital of Pennsylvania measuring impacts of concussion on decision-making and learning.
- Mentoring and training undergraduate students in R and Python coding and data analysis, IRB adherence and study design.
- Submitted abstract to conduct 15-minute data blitz at upcoming Cognitive Neuroscience Society annual conference in April, 2022.
- Submitted National Science Foundation Graduate Research Fellowship Program (GRFP) application to support my graduate education, highlighting my current work taking place at Platt Labs along with anticipated future directions.

Pymetrics, Inc

New York, NY

*Data Science / Behavioral Research Coordinator*

12/2019 – 7/2020

- Utilized Amazon Mechanical Turk (MTurk), Qualtrics and LimeSurvey to manage multiple behavioral data collections targeting thousands of crowdsourced participants with various screening parameters both nationally and internationally.
- Headed data scrubbing initiatives to convert big data into digestible format for data warehousing.
- Performed analyses involving reliability of behavioral measures, preliminary factor analyses, visualizations, and descriptive statistics to present to data team.
- Established relationships with multiple vendors, developed contractual requirements and served as point person for research project management between research, data, and psychology teams along with outside partners.
- Planned logistics and organized project sprints, informing machine learning model builds.
- Aided in configuration of neurophysiological measures of intelligence "G" to a computerized platform.
- Analyzed return of investment (ROI) metrics for various clients based on their defined requirements.
- Inventoried company-wide Mode reports for systematic update.

SPARK Neuro

New York, NY

*Neuroanalytics Engineer*

6/2019 – 10/2019

- Served as both client facing and internal engineer to understand clients' needs, designing ad and content optimization studies for pre-release creatives/animations, slogans and full advertisements.
- Assessed advertisement breakthrough potential utilizing statistical metrics of success seen in industry.
- Applied EEG, GSR, eye-tracking, and facial recognition to create an aggregate measure of participants' engagement for overall and moment-by-moment analyses of advertisements.
- Designed and implemented survey and interview questions to support biometric findings and for correlation analysis.
- Created initial findings, in-depth ad optimization and overall study reports consisting of quantitative and qualitative data analysis to present alongside CEO and/or sales team.
- Automated recruitment platform and increased study participant registry from 700 to 1500 participants.
- Responsible for social media advertisements of upcoming study participation opportunities.
- Involved in numerous sales pitches to demonstrate our technology and to network with potential clientele.

Memorial Sloan Kettering Cancer Center, Neurocognitive Laboratory

New York, NY

*Clinical Research Coordinator (CRC)*

6/2018 – 6/2019

- Lead coordinator for Behavioral Science Department's longitudinal neurocognitive study, aiming to merge traditional values of neuropsychological testing with methods rooted in neuroscience to investigate cognitive impacts of breast cancer. Worked closely with principal investigators, laboratory staff and IRB to ensure maintenance of protocol.
- Conducted study appointments both before and after chemotherapy treatment. Administered standardized neuropsychological assessment batteries, eye-tracking, GSR, and EEG alongside computerized behavioral paradigms.
- Worked to recruit 300 participants, 200 of whom were MSK breast cancer patients and 100 of whom were healthy control participants. Screened medical records to determine eligibility while tracking participants' health records to conduct follow-up appointments according to specific timepoints in their treatment plan.
- Served as neuroscience specialist on CRC staff and led independent trainings to enhance biometric measurements.
- Trained to offer emotional support and counseling referrals to patient participants undergoing cancer treatment.

GWU Cognitive Neuroscience Lab, Department of Psychology

Washington, D.C.

*Research Assistant*

5/2017 – 6/2018

- Used MTurk to examine and analyze orientation tuning curves in motion in area MT and V1 in subjects on the autism spectrum under Dr. Dwight Kravitz and Dr. Gregory Wallace.
- Aided in analysis of word frequency and word superiority effect.

GWU Evolutionary Neuroscience Lab

Washington, D.C.

*Research Assistant*

5/2015 – 6/2018

- Analyzed impacts of exercise and multiple sclerosis on adult hippocampal neurogenesis in the dentate gyrus. Using stereology to quantify DCX (protein) respondent cells.

Office of Autism Research Coordination, NIMH, NIH

Rockville, Maryland

*Research Policy Analyst*

5/2017 – 8/2017

- Assisted in research and policy analysis for the Interagency Autism Coordination Committee's (IACC) Strategic Plan, which outlines autism research goals for 2018.

- Assisted in policy research and expertise at July 2017 IACC meeting.
- Aided in intramural and extramural collaboration and networking for the Office of Autism Research Coordination (OARC).
- Implemented creation of OARC's monthly newsletter.

George Washington Social Cognition Lab  
*Intern*

Washington, D.C.  
9/2014 – 5/2015

- Studied cognitive behavioral aspects of learning (regarding memory and mimicking) in children between ages of 3 and 5, under Professor Francys Subiaul. Worked with children at the Smithsonian Museum of Natural History implementing behavioral tasks on a computer.

Democratic Congressional Campaign Committee  
*Member Services Intern*

Washington, D.C.  
8/2015 – 12/2015

- Sole intern in Member Services Department working directly with members of U.S. Congress in scheduling appointments, call times and events.
- Aided fundraising cycle documentation. Maintained contact with donors and affiliated Super PACs.

## Publications and Posters

- *Co-Authorship*: Coltan Scriver, Jamie Kleiner, Michael Platt. **Group synchrony and dynamics within a haunted-house experience.** (*in preparation*)
- *Co-Authorship*: Vera Ludwig, Jamie Kleiner, Michael Platt. **Just Like Me: A study on synchrony through a video interface.** (*in preparation*)
- *Co-Authorship*: Sylvia Mol, Jenna McChesney, Jamie Kleiner, Kelly Trindel, Lewis Baker, Lori Foster, Frida Polli. **Omnibus Study of General Intelligence and its Relationship to the Pymetrics Battery.** (*in preparation*)
- *Poster*: Jamie R. Kleiner, Kat McNeal, Alex Kasputis, Anam Ahsan, Caraline Demirjian, Stephanie Napolitano, Tim Ahles, Robert Melara, James Root. **Age-Related Variations of Inhibition Response Times Demonstrated Through the Stop Signal Task: Implications to Cancer Patients' Executive Functioning.** *Memorial Sloan Kettering Annual Research Symposium.* 2019, New York, NY.
- *Poster*: Jamie R. Kleiner, Kimberley A. Phillips & Chet C. Sherwood. **Animal Model Simulating MS and Exercise's Impact on Adult Hippocampal Neurogenesis.** *Society for Neuroscience Annual Conference.* 2017, Washington, DC.
- *First Author Conference Paper*: Jamie R. Kleiner, Kimberley A. Phillips & Chet C. Sherwood. **Animal Model Simulating MS and Exercise's Impact on Adult Hippocampal Neurogenesis.** *Society for Neuroscience Annual Conference Admissions.* 2017, Washington, DC.

## Certifications and Notable Achievements

- Worked with administration and faculty as undergraduate founder/representative to establish a neuroscience major at George Washington University. Major was made available to all students by Fall 2018 and is the third most popular major in The Columbian College of Arts and Sciences.
- Certified by principal investigators to administer neuropsychological assessments of attention, processing speed, and executive function (APE), learning and memory (LM), and the self-reported FACT-Cog scale.
- 2017 Luther Rice Research Award Recipient: Granted \$5,000 to commence independent study under Dr. Chet Sherwood.
- Presidential Scholarship Recipient.
- Dean's List: Fall 2014 - Spring 2018.
- Appointed onto the GW Student Association Executive Cabinet, Director of Student Health (2016-2017).
- Elected to GW College Democrats Executive Board, Vice President of Communications (2015-2016).
- Awarded membership to Phi Sigma Pi National Honors Fraternity.
- Awarded membership to Psi Chi - International Honors Society in Psychology.
- Awarded best actress "Ms. Thespian" for 2014-2015 GW Theatre Department.

## Skills

- Technical: SQL, GitHub, JupyterLab, Tableau, Amazon Mechanical Turk, Cloud Research (Turk Prime), Qualtrics, Limesurvey, Mode, Smartsheet, IBM SPSS, NAB Statistical Software, G Suite, Microsoft Office Suite (mastery in Excel), BrainVision and EMOTIV EEG software, SuperLab behavioral task configuration, Jira/Confluence, Pardot, Mailchimp, Ripple Science, RedCap, Clinical Conductor, CTMS.
- Programming: Python, R, MATLAB.
- Neuroscience: EEG, GSR, eye-tracking, pupillometry, facial recognition, stereological procedures and microscopy.
- Research Coordination: IRB Protocol, research proposal and planning, data analysis, poster and publication writing, recruitment for both in-person and online studies, maintenance of biospecimen collection (blood and saliva), collection of vitals (height, weight, temperature, blood pressure, BMI calculation and body measurements).
- Performative Skills: Professionally trained actress for both stage and film. Starred in numerous independent films and plays in both New York, NY and Washington, DC. Public speaking experience for both motivational speaking, scientific teaching and stage performance techniques.